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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/695,277	10/28/2003	Yong Ho Son	007412.00304	3963

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WASHINGTON, DC 20005-4051

EXAMINER

SAINT CYR, JEAN D

ART UNIT	PAPER NUMBER
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2425

MAIL DATE	DELIVERY MODE
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04/28/2009

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/695,277	Applicant(s) SON ET AL.	
	Examiner JEAN D. SAINT CYR	Art Unit 2425	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 April 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-11 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 28 October 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114.

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 04/-6/2009 has been entered.

Claims 1-11, filed 10/28/2003, are presented for examination

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) The invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3 and 11 are rejected under 35 U.S.C. 102(e) as being anticipated by Kupka et al, US Patent No.6434535.

Re claim 1, Kupka et al disclose at least one programming source for storing at least one partially encrypted video program(see fig.1; pre-encryption may be preferable to provide greater performance in environments where large amounts of data need to be encrypted per transaction, col.19, lines 6-9); a distribution center comprising a

Art Unit: 2425

remote server (see fig.1, server 16; transmitting electronic data from a remote server 16 to a removable storage media 28, col.7, lines 32-33), said remote server storing said at least one partially encrypted video program received from said at least one programming source which is located remote from the remote server(a secure method of transmitting electronic data from a remote server 16 to a removable storage media 28,col.7, lines 32-33; that means the remote server and removable storage are located remotely), and said remote server processing (the electronic data is encrypted during the download process to the media 28 using the unique identifier of the media 28, a vendor identifier and a user identifier as an encryption key, col.14, lines 35-38)said partially encrypted video program corresponding to a subscriber requested video program to produce a fully encrypted video program(the data may be double encrypted prior to transmission to the client,col.19, lines 19-20); and

a subscriber-side distribution network coupled to the distribution center (see fig.1, element 12, network infrastructure/internet), for causing transmission of the fully encrypted video program to the requesting subscriber (the data may be double encrypted prior to transmission to the client).

Re claim 2, Kupka et al disclose wherein said remote server causes transmission of a decryption key to said requesting subscriber via said subscriber-side distribution network, said decryption key being necessary to decrypt said fully encrypted video program(wherein the electronic content is in an encrypted format comprises encrypting at least one of the electronic content and an encryption key to the electronic content, the encrypting using the unique identifier as an encryption key, col.4, lines 64-67 and col.5, lines 1-2).

Re claim 3, Kupka et al disclose wherein said fully encrypted video program is encrypted according to a public key associated (the encrypting using the unique identifier as an encryption key, col.4, lines 34-35) with said requesting subscriber, said public key having associated with it a private key necessary to decrypt said fully

Art Unit: 2425

encrypted video program (the data is stored on the media 28 in an encrypted format using at least the unique serial number as a decryption key, col.18, lines 46-48).

Re claim 11, Kupka et al teach wherein said distribution center is coupled to said at least one programming source via a provider side distribution network (see fig.1, server 16a and server 16c).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 4-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kupka et al in view of Heer et al, US Patent No. 5999629.

Re claim 4, Kupka et al did not fully disclose wherein said fully encrypted video program is encrypted according to a private key associated with said requesting subscriber, said private key having associated with it a public key necessary to decrypt said fully encrypted video program.

However, Heer et al disclose wherein said fully encrypted video program is encrypted according to a private key associated (private key, col.4, line 34) with said requesting subscriber, said private key having associated with it a public key (an associated public key, col.1, line 52) necessary to decrypt said fully encrypted video program (to decrypt the encrypted program, col.4, line 7).

Art Unit: 2425

It would have been obvious for any person of ordinary skill in the art at that time the invention was made to introduce wherein said fully encrypted video program is encrypted according to a private key associated with said requesting subscriber, said private key having associated with it a public key necessary to decrypt said fully encrypted video program into the system of Kupka, as taught by Heer, for the benefit of making the system safer against unauthorized users.

Re claim 5, Kupka et al did not explicitly disclose wherein said fully encrypted video program is encrypted according to a public key, said public key having associated with it a private key necessary to decrypt said fully encrypted video program, said system further comprising: said remote server transmitting said private key to said requesting subscriber.

However, Heer et al disclose wherein said fully encrypted video program is encrypted according to a public key (an associated public key, col.1, line 52), said public key having associated with it a private key necessary to decrypt said fully encrypted video program (to decrypt the encrypted program, col.4, line 7), said apparatus further comprising: said remote server transmitting said private key to said requesting subscriber (distribute that key in a secure manner to user who has entered a request, col.4, lines 23-24).

It would have been obvious for any person of ordinary skill in the art at that time the invention was made to introduce wherein said fully encrypted video program is encrypted according to a public key, said public key having associated with it a private key necessary to decrypt said fully encrypted video program, said apparatus further comprising: said remote server transmitting said private key to said requesting subscriber into the system of Kupka, as taught by Heer, for the benefit of making the system safer against unauthorized users.

Art Unit: 2425

Re claim 6, Kupka et al did not explicitly disclose said public key is encrypted prior to transmission to said requesting subscriber.

However, Heer et al disclose said public key(an associated public key, col.1, line 52) is encrypted prior to transmission to said requesting subscriber(encrypted and stored in server in association of program identifier, col.2, line 63).

It would have been obvious for any person of ordinary skill in the art at that time the invention was made to introduce said public key is encrypted prior to transmission to said requesting subscriber into the system of Kupka, as taught by Heer, for the benefit of making the system safer to unauthorized users.

Re claim 7, Kupka et al did not explicitly disclose wherein said fully encrypted video program is transmitted to said requesting subscriber via a first communications channel and said decryption key is transmitted to said requesting subscriber via a second communications channel.

However, Heer et al disclose wherein said fully encrypted video program is transmitted to said requesting subscriber via a first communications channel and said decryption key is transmitted to said requesting subscriber via a second communications channel (see fig.1, the system uses bus 41 for encrypted video program and bus 61 for sharing key; col.6, lines 17-24; to this end, then, ACS 40 and module 30 communicate with one another via processor 25 and a communications channel of path 21 reserved for such communications to transport the "key" to ACS 40, col.4, lines 27-30).

It would have been obvious for any person of ordinary skill in the art at that time the invention was made to introduce disclose wherein said fully encrypted video program is transmitted to said requesting subscriber via a first communications channel and said decryption key is transmitted to said requesting subscriber via a second communications channel into the system of Kupka, as taught by Heer, for the benefit of limiting congestion of bandwidth.

Art Unit: 2425

Re claim 8, Kupka et al did not explicitly disclose wherein said fully encrypted video program is encrypted according to a Data Encryption Standard.

However, Heer et al disclose wherein said fully encrypted video program is encrypted according to a Data Encryption Standard (Digital Encryption System, col. 8, line 67).

It would have been obvious for any person of ordinary skill in the art at that time the invention was made to introduce wherein said fully encrypted video program is encrypted according to a Data Encryption Standard into the system of Kupka, as taught by Heer, for the benefit of making the system more compatible.

Re claim 9, Kupka et al did explicitly disclose wherein said remote server multiplexes said fully encrypted video program and other signals to create a multiplexed signal for transmission to said requesting subscriber.

However, Heer et al disclose wherein said remote server multiplexes said fully encrypted video program and other signals to create a multiplexed signal (see fig.5, element 7, DES processor; input data handler 6 includes an input register file configured as a FIFO, register, byte counters and a multibit, e.g., 32 bit, multiplexer, col.9. lines 63-65) for transmission to said requesting subscriber(distribute that key in a secure manner to user who has entered a request, col.4,lines 23-24).

It would have been obvious for any person of ordinary skill in the art at that time the invention was made to introduce wherein said remote server multiplexes said fully encrypted video program and other signals to create a multiplexed signal for transmission to said requesting subscriber into the system of Kupka, as taught by Heer, for the benefit of making the system more efficient.

Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kupka et al in view of Garneau et al, US Patent No. 5675647.

Art Unit: 2425

Re claim 10, Kupka et al did not explicitly disclose wherein said at least one programming source comprises at least one of a television broadcasting source, a premium broadcast source, and a video- on-demand source.

However, Garneau et al teach wherein said at least one programming source comprises at least one of a television broadcasting source, a premium broadcast source, and a video- on-demand source (see fig.3 where a plurality of programming sources are connected to the Headend; pay per view or equivalent service, col.1, lines 51-52).

it would have been obvious for any person of ordinary skill in the art at that time the invention was made to implement wherein said at least one programming source comprises at least one of a television broadcasting source, a premium broadcast source, and a video- on-demand source into the system of Kupka for the benefit of allowing users to get access to different kind of programs.

Response to Arguments

Applicant's arguments with respect to claims 1-11 have been considered but are moot in of the new ground(s) of rejection. The amendment to the claims necessitated the new ground(s) of rejection discussed above. This office action is non-final.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean Duclos Saintcy whose phone number is 571-270-3224. The examiner can normally reach on M-F 7:30-5:00 PM EST. If attempts to reach the examiner by telephone are not successful, his supervisor, Brian Pendleton, can be reached on 571-272-7527. The fax number for the organization where the application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Retrieval (PAIR) system. Status information for published applications may be obtained from either private PAIR or Public PAIR. Status information for unpublished applications is available through

Art Unit: 2425

Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197(toll free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, dial 800-786-9199(IN USA OR CANADA) or 571-272-1000.

/Jean Duclos Saintcyr /

/Brian T. Pendleton/

Supervisory Patent Examiner, Art Unit 2425